



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q54404

Kaname MIWA, et al.

Appln. No.: 09/313,184

Group Art Unit: 1743

Confirmation No.: 3561

Examiner: Ta Hsung Tung

Filed: May 18, 1999

For: SENSOR ELEMENT AND GAS SENSOR

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.97 and 1.98**

Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

One copy of each of the listed documents is submitted herewith. These documents were cited in an Office Action dated February 24, 2003 in a corresponding Japanese patent application.

The present Information Disclosure Statement is being filed after either a Final Office Action, Notice of Allowance, or an action that otherwise closes prosecution in the application (whichever is earlier), but before payment of the Issue Fee, and therefore Applicant is submitting herewith a check for the fee of \$180.00 under 37 C.F.R. § 1.17(p), and a Statement Under

04/08/2003 37 C.F.R. § 1.97(e). The USPTO is directed and authorized to charge all required fees, except

01 FC:1806

180.00 OP

RECEIVED

APR 9 2003

TC 1700

RECEIVED
APR 3 0 2003
GROUP 1700

He/WM
5/01/03

INFORMATION DISCLOSURE STATEMENT
U.S. Appln. No.: 09/313,184

for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. A duplicate copy of this paper is attached.

In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language documents, Applicant submits the following explanations:

U.S. Patent 5,348,630 (of record) corresponds to Japanese Patent Application laid-open Nos. 2-147853 and 2-147854.

JP 61-97754 discloses a type of sensor having a pair of electrodes formed on opposite sides of an oxygen-ion conductive solid electrolyte substrate, but not a flat limiting-current-type sensor. In a corresponding Japanese patent application, the Japanese Examiner cited JP 61-97754 as disclosing that the area of the negative electrode differs from the area of the positive electrode, thereby lowering the element resistance of the flat limiting-current-type sensor and thus improving measurement accuracy. However, the sensor in JP 61-97754 is not a flat limiting-current-type sensor.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any

INFORMATION DISCLOSURE STATEMENT
U.S. Appln. No.: 09/313,184

listed document as a competent reference against the claims of the present application.

Respectfully submitted,



Abraham J. Rosner

Registration No. 33,276

RECEIVED
APR 3 0 2003
GROUP 1700

SUGHRUE MION, PLLC
Telephone: (202) 293-7060
Facsimile: (202) 293-7860

WASHINGTON OFFICE



23373

PATENT TRADEMARK OFFICE

Date: April 4, 2003



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q54404

Kaname MIWA, et al.

Appln. No.: 09/313,184

Group Art Unit: 1743

Confirmation No.: 3561

Examiner: Ta Hsung Tung

Filed: May 18, 1999

For: SENSOR ELEMENT AND GAS SENSOR

STATEMENT UNDER 37 CFR § 1.97(e)

Commissioner for Patents
Washington, D.C. 20231

Sir:

The undersigned hereby states, upon information and belief:

That each item of information contained in the Information Disclosure Statement filed concurrently herewith was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of said Information Disclosure Statement.

Respectfully submitted,

Abraham J. Rosner
Registration No. 33,276

SUGHRUE MION, PLLC
Telephone: (202) 293-7060
Facsimile: (202) 293-7860

WASHINGTON OFFICE



23373

PATENT TRADEMARK OFFICE

Date: April 4, 2003

RECEIVED
APR 9 2003
TC 1700

RECEIVED
APR 30 2003
GROUP 1700